$\{(1,2),(-3,0),(5,4),(-1,2)\}$

Inverse - switch x and y

$\{(2,1),(0,-3),(4,5),(2,-1)\}$

Inverse not a function

$y = \frac{1}{2}x - 5$

Linear Function

Inverse $x = \frac{1}{2}y - 5$

Solve for y.

Parabola

$y = x^2 - 6$

Quadratic Function

x	y
-3	
-2	
-1	
0	
1	
2	

$x = y^2 - 6$

Solve for y.

y
-3
-2
-1
0
2
3

Graph $y = x$

on both

HW

① What was the inverse of the line?

② Is every line's inverse a function?

③ What was the inverse of the quadratic function?

④ Was it a function?

⑤ Why did I make you graph $y=x$?